CHAIRMAN OF THE JOINT CHIEFS OF STAFF INSTRUCTION

J-6

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CJCSI 6271.01A

15 June 1997

JOINT STANDARD AIR OPERATIONS SOFTWARE CONFIGURATION CONTROL

References: See Enclosure B.

1. <u>Purpose</u>. This instruction establishes policy for the joint configuration control of joint standard air operations software (JSAOS). It also provides the responsibilities and procedures of various organizations in joint management of JSAOS release plans for CINC/Service/Defense Agency (C/S/A) systems that develop and use JSAOS.

2. <u>Cancellation</u>. CJCSI 6271.01, 19 April 1996, is canceled.

3. <u>Applicability</u>. Provisions of this instruction apply to affected C/S/As. This instruction does not apply to configuration management of US Message Text Formats (USMTF). It supports Global Command and Control System (GCCS) configuration management (CM) policies.

4. <u>Policy</u>. Reference a declared Contingency Theater Automated Planning System (CTAPS) software the joint standard for air tasking order (ATO) generation and dissemination and directed the Joint Staff to organize a joint configuration control program with Joint Interoperability and Engineering Organization (JIEO) support. This instruction was prepared per the guidelines in reference a and continues the policy for a configuration control program for joint standard ATO and air operations software and documentation. Actions and procedures in this instruction will be used for every Theater Battle

Management Core System (TBMCS)/JSAOS release (to include major releases, maintenance releases, and patches).

5. <u>Definitions</u>. See Glossary.

6. <u>Responsibilities</u>. Joint Staff/J6V is the office responsible for initiating and reviewing this instruction. Other responsibilities are outlined in Enclosure A.

7. <u>Effective Date</u>. This instruction is effective upon receipt.

For the Chairman of the Joint Chiefs of Staff:

\Signature\
DENNIS C. BLAIR
Vice Admiral, U.S. Navy
Director, Joint Staff

Enclosures:
    A--JSAOS Configuration Control Procedures
        Appendix A--JSAOS Computer Software Configuration Items (CSCI)
        Appendix B--Seven Questions for Air Operations Systems Interopera-
        bility
    B--References
    Glossary

ENCLOSURE A
JOINT STANDARD AIR OPERATIONS SOFTWARE CONFIGURATION CONTROL PROCEDURES

SECTION 1. GENERAL

1. <u>General</u>. This instruction will be applied to joint standard air operations software, as listed in Enclosure A, Appendix A. This software provides US forces the functionality to plan and control air operations inclusive of airspace control and air and missile defense; also to produce/generate, disseminate, and monitor execution of an ATO, air defense plan, master air attack plan, target nomination list, joint integrated prioritized target list, airspace control order (ACO), etc., as approved by the responsible Joint Task Force (JTF) Commander. The Joint Standard Air Operations Software Configuration Control Board (JSAO SCCB) established under this instruction will not eliminate the basic CM process of the Air Force CTAPS, the TBMCS, or their supporting administrative processes. However, because all JSAOS is currently CTAPS/TBMCS software, the JSAO SCCB will use the processes that guide the development of these elements as the underlying structure to support its process as a joint forum to manage and control development and deployment of JSAOS. The JSAO SCCB will consider and deliberate specifically over software components that are determined to be the joint standard and provide air operations functional applications and their interfaces. C/S/A's software will be designated as the joint standard, and governed by this instruction, when accepted as such by a majority vote of the JSAO SCCB. The JSAO SCCB will not deliberate over other components of the CTAPS/TBMCS system, but will maintain cognizance of them to provide a context for their primary deliberations. Similarly, the JSAO SCCB will not eliminate the basic CM processes of other systems, such as the Advanced Field Artillery Tactical Data System (AFATDS), the Joint Maritime Command Information System (JMCIS), etc., nor will it attempt to affect system development except as it relates to air operations planning and ATO execution monitoring software and interfaces to that software. The JSAO SCCB will convene, as required, to review and approve all specific version release plans of TBMCS and other systems as they pertain to the conversion to, and use of, JSAOS. The Global Command and Control (GCC) Systems Integration Working Group will be kept informed of JSAO SCCB decisions.

2. Background. All JSAOS is currently Air Force CTAPS/TBMCS software.
TBMCS air operations software is currently developed and controlled under the
Combat Air Forces (CAF) Command and Control (C2) System Program Office
(SPO) of the Electronic Systems Center (ESC). The CAF C2 SPO will continue
to perform this function for the many individual application development
efforts currently underway within TBMCS. The TBMCS software development
process has been built, as depicted in Figure 1, to bring air operations software
under joint oversight (darkened blocks are those where joint participation is
incorporated). Similarly, other Services, whose software is designated in the
future as the joint standard, will incorporate joint review/participation proc-
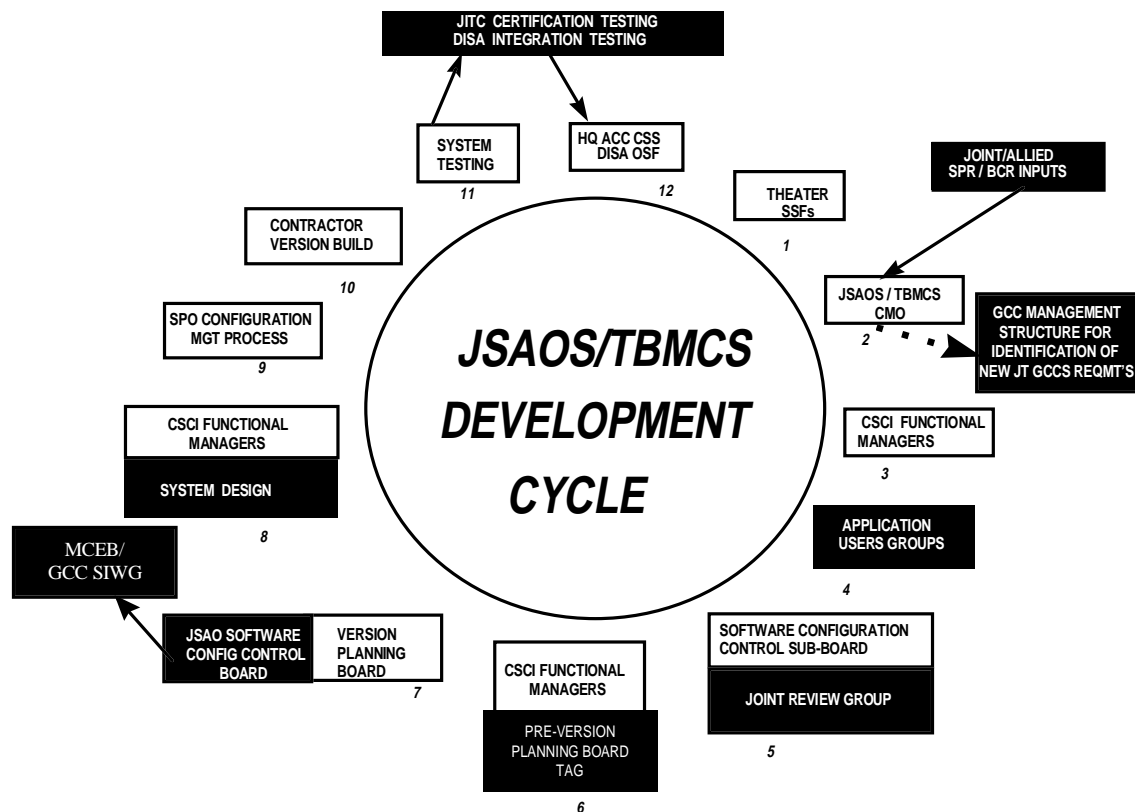esses as indicated in Figure 1.

Figure 1. Joint Standard Air Operations Software Configuration Management

3. Changes. Proposed changes to this instruction, with supporting rationale, will be submitted to the Joint Staff/J6V through C/S/A representatives. Changes will be published after coordination and receipt of consensus approval from the designated voting representatives of the JSAO SCCB.

SECTION 2. RESPONSIBILITIES

4. General Responsibilities. All participants in the CM process must consider the effect their requirements have on the joint environment as a whole. The JSAO SCCB is responsible for assessing and minimizing this impact consistent with program objectives, requirements, and fiscal constraints.

5. Funding Responsibilities. TBMCS is currently an Air Force-funded program that has produced a system with many functional capabilities--including ATO mission applications and other air operations planning software modules that have been accepted as joint standards. The Air Force is the Executive Agent for ATO Interoperability. The Air Force has the responsibility to program funds for future development and improvements to the JSAOS that it produces. When another C/S/A's software is accepted as the joint standard, the C/S/A sponsoring the software will similarly incur this responsibility. The Air Force through its CAF C2 SPO also provides resource cost estimates during the CM process for Software Problem Reports (SPR)/Baseline Change Requests (BCR). (SPRs/BCRs are defined in paragraph 15a.) As other Services provide program oversight of software accepted as JSAOS, they, too, will similarly be responsible to provide this service. Each C/S/A using JSAOS is responsible to fund for/purchase their own hardware and firmware; also commercial off-the-shelf (COTS) software and other licenses (to include maintenance licenses) beginning in FY 1998. All testing to include Temporary Additional Duty (TAD)/Temporary Duty (TDY) of test participants, as determined by the Test Planning Working Group (TPWG), will be funded by the C/S/A sponsoring the software. Any immediate C/S/A-unique requirements, or maintenance of JSAOS, may require funding provided individually by the C/S/A requesting the change (see Enclosure B, reference b). (A requirement is considered a joint requirement when the majority of the voting members of the JSAO SCCB vote and declare it to be a joint requirement.) Items believed by a Service to be joint which the

review deems "Service/CINC unique" may be identified as substantive in accordance with the review process detailed in this instruction. The JSAO SCCB will evaluate and approve the Version Planning Document (VPD) including C/S/A-unique air operations software enhancements that will be implemented when funding is provided.

6. <u>The Joint Staff</u>

a. Establish and convene the JSAO SCCB, provide a chairperson to the board, solicit C/S/A agenda items, and act as spokesperson for Joint Staff interests. The JSAO SCCB will normally be scheduled in conjunction with the TBMCS Version Planning Board (VPB).

b. Ensure that the Joint Staff/J6U coordinates JSAO SCCB agenda items and issues with the unified commands and provides a voting member to the JSAO SCCB to represent unified command interests.

c. Establish and convene joint review groups (JRGs) to ensure TBMCS Software Configuration Control Sub-board (SCCSB) results, as they relate to JSAOS and documentation, maintain standard air operations system compatibility and interoperability. The JRGs are routinely scheduled in conjunction with the SCCSB. They may also be convened before JSAO SCCBs that are called to review C/S/A plans and proposals.

d. Present issues declared substantive by C/S/As to the Military Communications-Electronics Board (MCEB) or the GCC Management Structure, as appropriate, for resolution. The GCC Management Structure will only deliberate over GCCS-related C/S/A issues.

e. Ensure latest JSAO SCCB positions reflect MCEB and GCCS management structure guidance.

f. Present results of JSAO SCCBs to the GCC SIWG.

7. <u>Unified Commands, Services and Defense Agencies</u>

a. Identify a voting representative and alternate to the JSAO SCCB (Services only).

b. Generate and submit SPRs/BCRs using formats and procedures in accordance with (IAW) the TBMCS SPR/BCR Reporting and Processing Procedures Instruction that affect the common JSAOS baseline.

c. Designate representatives/points of contact to ensure SPRs/BCRs are reviewed for accuracy, completeness, and validity before transmission to the TBMCS Configuration Management Office (CMO), or other Service's CMO, IAW subparagraph 15a. The Joint Staff/J6V will be provided an information copy of all SPRs/BCRs.

d. Participate in JSAOS CM processes and in preparation and coordination of documents necessary to ensure deployment and sustainment of JSAOS on their respective platforms.

e. Review, comment, and vote (Services only) upon SPRs/BCRs and issues, as appropriate.

f. Designate and inform J6V of the offices responsible for the accomplishment of their portion of the JSAO SCCB.

g. Submit JSAOS-related system version release plans and issues to the JSAO SCCB.

h. Identify, program, budget, and provide for resources to support the JSAO SCCB and its meetings.

i. Support Joint Interoperability Test Center (JITC) certification test planning and participate in JSAOS testing, as required, during the development process.

j. Prepare interface change proposals (ICP) to USMTFs IAW reference c, when necessary.

8. <u>CAF C2 SPO</u>

a. Be responsible for CM of TBMCS, to include the JSAOS baseline segments that they produce and control. The TBMCS CM agent is the CAF C2 SPO.

b. Conduct technical assessments to review, evaluate, and discuss JSAOS SPRs/BCRs to determine cost, schedule, and impact to applications.

c. Participate and support JRGs.

d. Prepare the TBMCS VPD, which includes prioritized JSAOS SPRs/BCRs and present relevant VPD items to the JRG and JSAO SCCB.

e. Identify, organize, and execute near- and long-term TBMCS software life-cycle management of JSAOS, to include documentation for all hardware configurations.

f. Ensure SPRs/BCRs classified as joint are separated from Service-unique SPRs/BCRs in all documentation.

g. Communicate with Services, Defense agencies, and program offices to identify, document, and evaluate software performance or interface problems.

h. Establish a test environment for software testing and evaluation of all Service configurations to include:

(1) Participation in JSAO SCCB-directed certification test planning led by JITC.

(2) Support of the JITC certification and GCCS integration test environments and test executions.

i. Distribute JSAO SCCB/VPB-approved software releases, as appropriate.

j. Coordinate with individual Service or agency SPOs on interoperability and testing issues.

k. Act as Secretariat for the JSAO SCCB. This includes:

(1) Coordinating and distributing items necessary for successful development and deployment of JSAOS in C/S/A systems by the CAF C2 SPO.

(2) Administering JRGs and JSAO SCCBs under the direction of the Joint Staff/J6V.

(3) Providing the JSAO SCCB briefs that detail JSAOS program costs, schedule, and fiscal restraints in order that the JSAO SCCB can make informed decisions.

l. Determine configuration management of all COTS products and licenses that are common among GCCS and the joint modules of TBMCS to ensure optimum purchase prices are provided to all.

9. Joint Interoperability and Engineering Organization

a. Conduct independent reviews and provide recommendations as requested by the JSAO SCCB.

b. Ensure USMTF CM.

SECTION 3. PROCEDURES

10. General. This joint air operations CM process provides for C/S/A JSAO SCCB representation. It also provides for a decision appeal process by which a voting member (including the chairperson) may nonconcur in the JSAO SCCB decision and declare that decision as a substantive issue. Appeals are forwarded to the chairperson of the GCC Review Board or Secretariat, MCEB for action, and/or decision, as appropriate. (The GCC Review Board will only deliberate over GCCS-related C/S/A issues.) JSAO SCCBs and Joint Review

Groups (JRG) will be conducted, after coordination with the CAF C2 SPO, or other SPOs, in conjunction with TBMCS boards, or like Service boards, as described in the following paragraphs. Additionally, JSAO SCCBs and JRGs are scheduled, as required, to consider C/S/A version release plans or issues.

11. <u>Planning</u>. Participation in the CM process requires planning and preparation on the part of the JSAO SCCB membership. Services should ensure JSAO CCB representation by personnel who are knowledgeable on JRG and JSAO SCCB issues, and who are familiar with their respective Service positions on the issues. JSAO SCCB agendas will be developed and provided as far in advance of each JSAO SCCB meeting as practical, normally a minimum of 10 days, consistent with factors bearing on the JSAO SCCB issues.

12. <u>JSAOS/TBMCS Configuration Control</u>. The JSAOS/TBMCS Software SPR/BCR process, as detailed in the Air Force TBMCS SPR/BCR Reporting and Processing Instruction, starts with Air Force Major Command (MAJCOM) Software Support Facilities (SSFs) (or other Service equivalents) review of SPRs/BCRs received from their units and continues through release of a JSAOS/TBMCS version by the SPO. (SPRs/BCRs are defined in paragraph 15a.) The CAF C2 SPO is responsible for CM of TBMCS software, as are other C/S/A program offices/equivalents responsible for the JSAOS that they produce. This section of procedures for the JSAO software configuration control processes highlights steps where joint processes are integrated onto, or overlaid on, standard procedures (see Figure 1). JSAOS configuration management offices will use this instruction to guide all joint processes. Specific SPR/BCR reporting and processing procedures for TBMCS/JSAOS software, to include Information Field Instructions, Sample Worksheets, and Submittal Instructions, can be downloaded from the TBMCS homepage (http://tbmcs.af.mil).

    a. <u>CM Office</u>. Once SPRs/BCRs are received from joint and allied JSAOS/TBMCS air operations software users, the TBMCS CMO will forward a compiled list and description of the SPRs/BCRs to the Joint Staff/J6V and to the other C/S/A representatives for their information and review. This information is necessary for C/S/A representatives to prepare for their participation in the TBMCS Application User Groups,

JRGs, VPBs, JSAO SCCBs, system design reviews, etc., IAW the guidance in paragraph 11.

b. <u>Application User Groups (AUG)</u>. AUGs serve as joint forums between all TBMCS application managers and using agencies for those applications determined to be joint. AUGs provide open forums in which all users have a voice by which to discuss issues of mutual concern, reach a consensus on those issues, and provide guidance and insight into the user's perspective for the developers and implementers with the objective of improving the operational capabilities and utility of applications. C/S/A's sponsoring JSAOS will develop a charter detailing their administrative and organizational procedures to be approved by the JSAO SCCB. Other specific AUG objectives include:

(1) Suggesting, coordinating, and evaluating changes and functional enhancements to applications to meet evolving operational requirements of all users.

(2) Prioritizing all open SPRs/BCRs and recommending closure of those without merit.

(3) Identifying operational interface requirements between other applications and systems.

c. <u>Software Configuration Control Sub-board/Joint Review Group (SCCSB/JRG)</u>. The SCCSB/JRG validates and prioritizes SPRs/BCRs for inclusion in the work plan submitted to the VPB/JSAO SCCB. The SCCSB/JRG includes a designated representative from each Service that uses the JSAOS. For all non-JSAOS/TBMCS issues, the SCCSB is unchanged; the chair remains with the CAF C2 SPO and the Air and Space Command and Control Agency (ASC2A), and the CAF C2 SPO also acts as the Secretariat. For issues involving the JSAOS, the forum becomes the JRG, the chairperson becomes Joint Staff/J6V, the CAF C2 SPO remains the Secretariat, and the voting membership becomes the Service representatives. A Joint Staff/J6U representative will be the voting member that represents CINC users. Voting membership changes appropriately

between forums. The presentation order of SPRs/BCRs will be coordinated by the Secretariat to allow non-JSAOS SPRs/BCRs to be discussed outside the JRG. Advance documentation relating to SPRs/BCRs under the cognizance of the JRG will be provided by the Secretariat to the principal members at least 30 days prior to the scheduled meeting. The results of the SCCSB/JRG are summarized and the Secretariat provides a prioritized list of requirements, delineating joint from Service/CINC unique, to the CAF C2 SPO who will use this package for further analysis of SPRs/BCRs, and to plan for resource allocation. A JRG will be conducted for all version releases, to include patches when the software is a part of a joint module or has the potential for impact on a joint module.

d. <u>Pre-Version Planning Board (VPB) Technical Assessment Group (VTAG)</u>. The VTAG establishes the overall TBMCS requirements baseline. Requirements from all inputs (JSAOS SPRs/BCRs validated and prioritized by the SCCSB/JRG, non-JSAOS SPRs/BCRs affecting other TBMCS components, and derived requirements that relate to the core system architecture) are presented by the integration contractor within an overall system context. Initial allocations of requirements are made to establish traceability to specific versions and to label joint requirements separately from C/S/A-unique requirements. The requirements baseline output from the VTAG will become the basis for the VPD presented at the JSAO SCCB/VPB. VTAG participation will include C/S/A, J6V, developers, integrators, and testers that interact with the JSAOS. The VTAG will normally be held in conjunction with an Air Operations Interoperability Working Group (AIWG) meeting. Voting membership is the Service representatives and a representative from the Joint Staff/J6U, who will be the voting member that represents unified command users.

e. <u>Version Planning Board/Joint Standard Air Operations Software Configuration Control Board</u>. The O-6 level VPB does not change in operation except additional C/S/A participants are recognized. For all non-JSAOS/TBMCS issues, the VPB is unchanged; the CAF C2 SPO is the chair and also acts as the Secretariat. For issues involving JSAOS, the forum becomes the JSAO SCCB, the chair becomes the Joint Staff/J6V, and the CAF C2 SPO remains as the Secretariat. Voting membership

changes appropriately between forums. As with the SCCSB/JRG, the Secretariat will coordinate the presentation of the SPRs/BCRs allowing non-JSAOS SPRs/BCRs and JSAOS-related SPRs/BCRs to be discussed in their respective forums. Version and core system changes will be presented by the CAF C2 SPO as to the effects, if any, upon the joint application modules and/or interfaces to other applications and systems. An assessment as to the effect of all SPRs/BCRs in respect to the seven questions for Air Operations Software Systems Interoperability (Enclosure A, Appendix B) will also be addressed. The output of the VPB/JSAO SCCB is the VPD that provides a rough order of magnitude (ROM) with regard to version functional content, fielding issues, schedule, cost, and technical risk drivers. System maintainers and developers use this version plan as the basis to complete the system-level design, the version specification, and the version fielding plan. The results of JSAO SCCB decisions in regard to version plans will be presented to the GCC SIWG.

f. <u>System Design Review (SDR)</u>. The purpose of the SDR is to make a final assessment as to acceptable system level implementation of requirements based on the version plan approved by the VPB/JSAO SCCB. This is facilitated through a review of the technical approach as detailed in the version specification and design documents. Results of prototyping activities are also presented. SDR participation will include key C/S/A and allied project managers, J6V, developers, integrators, and testers that interact with the JSAOS. SDRs will normally be held in conjunction with AIWG/VTAG meetings. Voting membership is the Service representatives and a representative from the Joint Staff/J6U, who will be the voting member that represents CINC users.

g. <u>SPO Configuration Management Process</u>. Following the SDR, the SPO CM process results in a base-lined version specification and evolution plan. A technical task directive (TTD) is issued at this point, formally tasking the integration contractor to build the version. The TTD, which includes the detailed version cost, schedule, and version specification, is the contract for delivery of fixes and new capabilities. The CAF C2 SPO Configuration Management Process forum becomes the JSAO SCCB, the chair becomes the Joint Staff/J6V, and the CAF C2 SPO remains as the

Secretariat. Voting membership will staff the TTD to the VPB/JSAO SCCB members for final approval prior to release to the integration contractor. It is imperative that this staffing process not exceed 21 days.

h. Joint Interoperability Test Center (JITC) Certification Testing. JITC is responsible for test planning IAW test objectives from the JSAO SCCB, controlling test execution, test analysis and reporting, and certification.

i. Defense Information Systems Agency (DISA) Integration Testing. The DISA Operations Support Facility (OSF) is responsible to conduct integration testing for all JSAOS migrating to the Defense Information Infrastructure (DII) Common Operating Environment (COE).

13. Joint Review Group

a. General. The Joint Review Group will:

(1) Validate and set priorities for joint SPRs/BCRs for inclusion in the work plan submitted to the JSAO SCCB.

(2) Evaluate JSAOS/TBMCS SPRs/BCRs for operational, intelligence, or technical feasibility, impact on C/S/A and allied systems, and suitability for incorporation into JSAOS, as directed by the JSAO SCCB chairperson. The JRG also evaluates C/S/A and allied issues or release plans regarding their systems as they relate to the use of JSAOS.

(3) Advise the JSAO SCCB when the proposed SPR/BCR impacts things beyond what is described in the SPR/BCR.

(4) Recommend to the JSAO SCCB testing of the change, if deemed necessary.

b. Participation. The JRG includes primary participants representing each voting member on the JSAO SCCB. Additionally, other participants, as designated by the chairperson or other JSAO SCCB members, may attend JRG meetings to provide technical support and assistance. However,

only the primary participants will state their C/S/A position for the JRG decision record. The chairperson and secretary are representatives from the same organizations as the chairperson and secretary of the JSAO SCCB. Representatives are assigned by the C/S/As based on the technical and operational experience required to evaluate change requests and draft necessary recommended modifications, etc. The chairperson or other members may invite additional individuals to act as consultants during JRG meetings.

c. Procedures. The Secretariat will prepare and distribute an agenda for any issues that are in addition to the SPRs/BCRs or work packages distributed by the CAF C2 SPO at least 10 days prior to each JRG meeting. The chairperson will develop a consensus of the position of the representatives or a summary of nonconcurrence as to the issue under review. Any unresolved issues, along with specific recommendations, will be provided to the JSAO SCCB chairperson for immediate resolution. Minutes of the JRG meeting will be provided to all JSAO SCCB voting members and the primary JRG participants. Minutes of the JRG meetings reflect the results and conclusions of the group and any earlier tasking of JRG members by the JATO SCCB chairperson.

14. Joint Standard Air Operations Software Configuration Control Board

a. Membership. The JSAO SCCB is chaired by the Joint Staff/J6V and comprised of one O-6 voting member from the Army, Navy, Air Force, Marine Corps, and a voting member for the unified commands, as represented by the Joint Staff/J6U. Voting representatives are responsible for describing, for the record of JSAO SCCB proceedings, positions of their represented activities on all matters considered by the JSAO SCCB. Voting representatives will be empowered to commit their represented activities on decisions of the JSAO SCCB. The JSAO SCCB secretary is a nonvoting member. Joint Staff/J6V, J6U, and the Services will keep the JSAO SCCB secretariat apprised of the names of their JSAO SCCB voting members and alternates. The JSAO SCCB secretariat maintains a current list of voting representatives.

b. Other Participants. Other participants, as designated by the chairperson or other JSAO SCCB members, may attend JSAO SCCB meetings to provide technical support and assistance. However, only the voting members will state their organization's position and/or vote for the JSAO SCCB decision record.

c. Secretariat

(1) Prepare agendas for meetings, facilitate discussions, propose courses of action and positions for the chairperson, and ensure the recording of represented C/S/A and allied positions on issues after open discussion within the JSAO SCCB.

(2) Monitor status of all JSAOS SPRs/BCRs. Ensure each SPR's/BCR's status (open or closed) is accurate.

(3) Prepare minutes of the JSAO SCCB for the chairperson and distribute same within 30 days of meeting adjournment.

(4) Review substantive issues and provide recommendations to the chairperson.

(5) Ensure JSAO SCCB/JRG meeting support materials are prepared and distributed.

d. Agenda. The Secretariat will prepare and distribute an agenda and any C/S/A or allied issues prior to each JSAO SCCB meeting. Information regarding the JSAOS-specific SPRs/BCRs will be provided in advance by the CAF C2 SPO to primary JSAO SCCB members.

e. Decisions

(1) Each Service, and Joint Staff/J6U, will have one vote in the decision of each issue before the board.

(2) The chairperson may vote to break ties.

(3) Decisions are determined by majority vote. An abstaining member casts no vote and is not counted as either determining what constitutes a majority or in the decision. If a voting member will not be attending, that member's vote must be submitted by letter, message, or other electronic means to arrive prior to the meeting to be considered. Decisions are reached by a tally of votes cast (in person or by letter or message from absent members). If an absentee vote becomes the deciding vote on issues where substantive new information is presented, the issue may be deferred to the next JSAO SCCB. Should there be a decision to defer action because of substantive new information, all votes may be recast when the issue is again on the agenda for another JSAO SCCB meeting. If a deferred item is vital to the next release of the software, a JSAO SCCB, via phone or video teleconference, will decide the issue resolution after further analysis.

(4) Any JSAO SCCB voting member, including the chairperson, may declare a JSAO SCCB decision a substantive issue. This must be done before the end of the meeting, unless a voting member requests a delay period due to significant new information uncovered at the meeting. Here, the member has 5 working days to declare in writing to the JSAO SCCB chairperson and other members the decision as a substantive issue. Additionally, the AFPEO/BA may declare a JSAO SCCB decision as substantive and has 5 working days to notify the JSAO SCCB chairperson and other JSAO SCCB members. The member declaring a JSAO SCCB decision a substantive issue will forward an appeal within 5 working days from the date of the declaration to the Secretariat, JSAO SCCB, for review and preparation of recommendation to the JSAO SCCB chairperson. The JSAO SCCB chairperson will forward all appeals to the Secretariat, MCEB, or the chairperson of the GCC Review Board (whichever forum is deemed more appropriate by the JSAO SCCB chairperson) within 10 working days of receipt. The organization declaring the substantive issue will provide information copies of all such actions to all JSAO SCCB members.

(a) The chairperson, JSAO SCCB, will forward substantive issues to the Secretariat, MCEB or chairperson of the GCC Review Board, along with a complete explanation of the issue to include full

rationale for the decision made by the JSAO SCCB, contrary views, and the specific recommendation of the chairperson, JSAO SCCB. Information copies will be provided to all voting JSAO SCCB members.

(b) Notification of decisions on issues forwarded to the MCEB, or GCC Review Board, once announced, will be disseminated to JSAO SCCB members by the Secretariat, JSAO SCCB.

15. <u>Procedures for JSAOS-Related SPRs/BCRs</u>.

a. An SPR is a deficiency to a documented functional requirement of the system; for instance, something within the scope of the existing software and/or documentation that is not functioning as specified. A BCR is a request or suggestion for adding a function not currently documented as a system requirement, or a suggested change to improve the way an existing feature operates. C/S/A users will use the TBMCS SPR/BCR procedures detailed in the TBMCS SPR/BCR Reporting and Processing Procedures Instruction to input SPRs/BCRs for JSAOS that is TBMCS software. This plan can be downloaded from the TBMCS home page (http://tbmcs.af.mil). Figures 2 and 3 depict the process flow for SPRs/BCRs. (Requirements identified for joint GCCS use will follow the procedures in CJCSI 6721.01, "GCCS Functional Requirements Evaluation Procedures.")

b. <u>Origination of SPRs/BCRs</u>. When problems are detected or requirements are established, C/S/A, or host system managers of systems using the JSAOS, will submit SPRs/BCRs to their respective C/S/A representatives for review prior to forwarding to the CAF C2 SPO's Configuration Management Office (CMO). (These representatives are designated IAW the guidance in paragraph 7(c).) This review ensures that SPRs/BCRs are clear, complete, consistent, and are not duplicated. Allied and unified command users will submit requirements directly to the TBMCS CMO, with an information copy to the Joint Staff/J6V.

16. <u>Characterization of SPRs/BCRs</u>. C/S/A and allied SPRs/BCRs will be characterized by the sponsor IAW the following paragraphs prior to submission

to the TBMCS CM process as specified in Enclosure B. Figure 4 shows the process flow for a new requirement.

a. If the problem is a C/S/A- or allied-unique requirement (i.e., Service-unique function, interface, or capability) the sponsor must prepare the necessary documents and provide funding to the CAF C2 SPO).
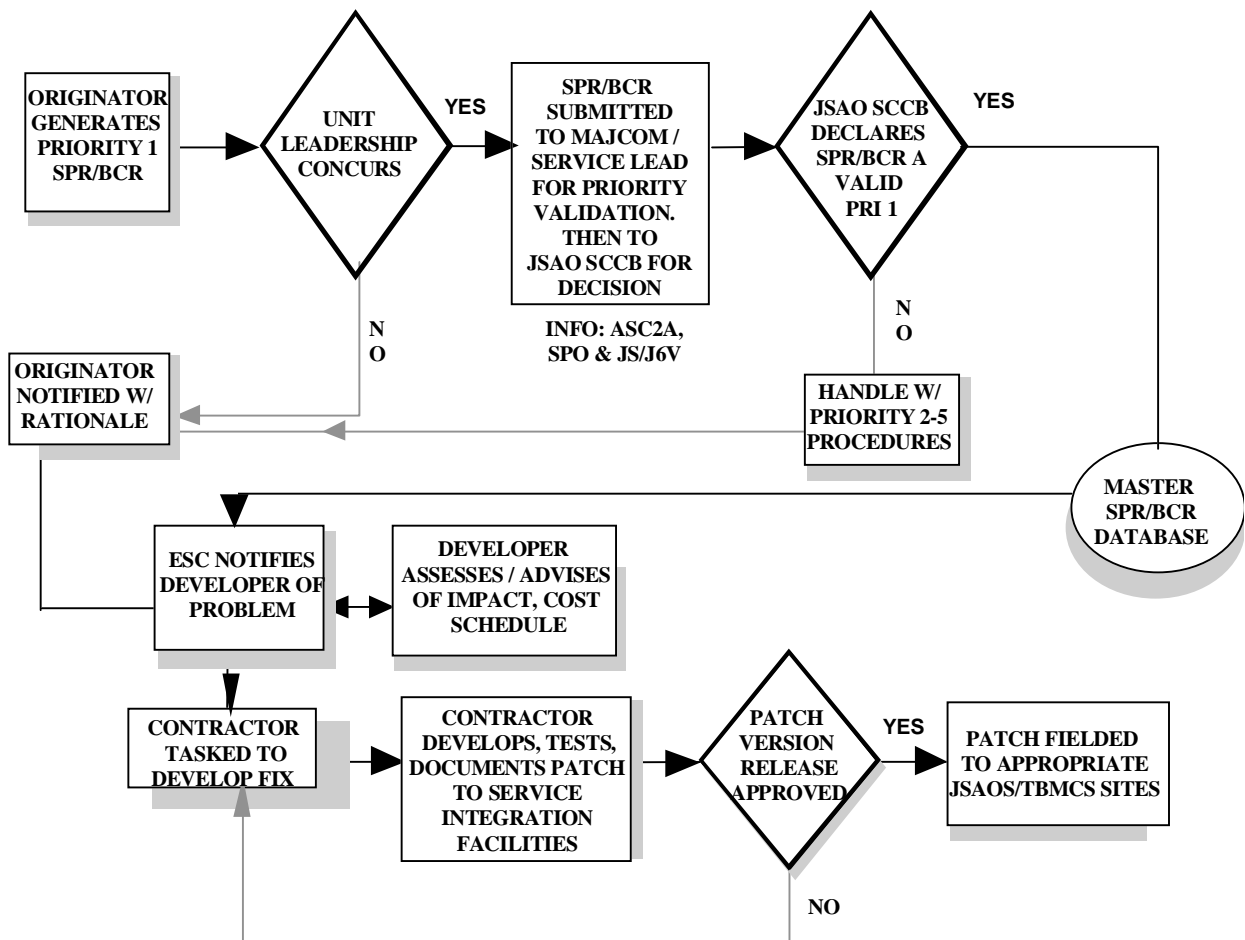

Figure 2: Priority 1 BCR/SPR Process Flow

b. If the problem is determined to be with the Message Text Format Standard (MIL-STD 6040), the sponsor will convert the SPR/BCR to an ICP and forward it according to Enclosure B, reference c.

c. Emergency ATO Software-Related SPR/BCR. An SPR/BCR that is validated as an emergency, Priority 1 SPR/BCR (by ASC2A for TBMCS software, and by the Services and the Joint Staff/J6V for JSAOS), will be handled IAW the emergency procedures of the TBMCS CM Plan (Figure 2). If the CAF C2 SPO, ASC2A, and the Joint Staff/J6V determine the fix impacts an interface to the JSAOS, the SPR must be forwarded to the C/S/As for analysis of impacts to their respective systems. An emergency meeting of the CSCI functional managers is convened and the results are presented to an emergency JSAO SCCB meeting. The emergency JSAO SCCB is chaired by the JSAO SCCB chairperson and conducted by telephone, teleconference, or other electronic means with the voting membership of the JSAO SCCB. The emergency JSAO SCCB provides direction for the maintainers and developers to deliver the fix for the emergency SPR.
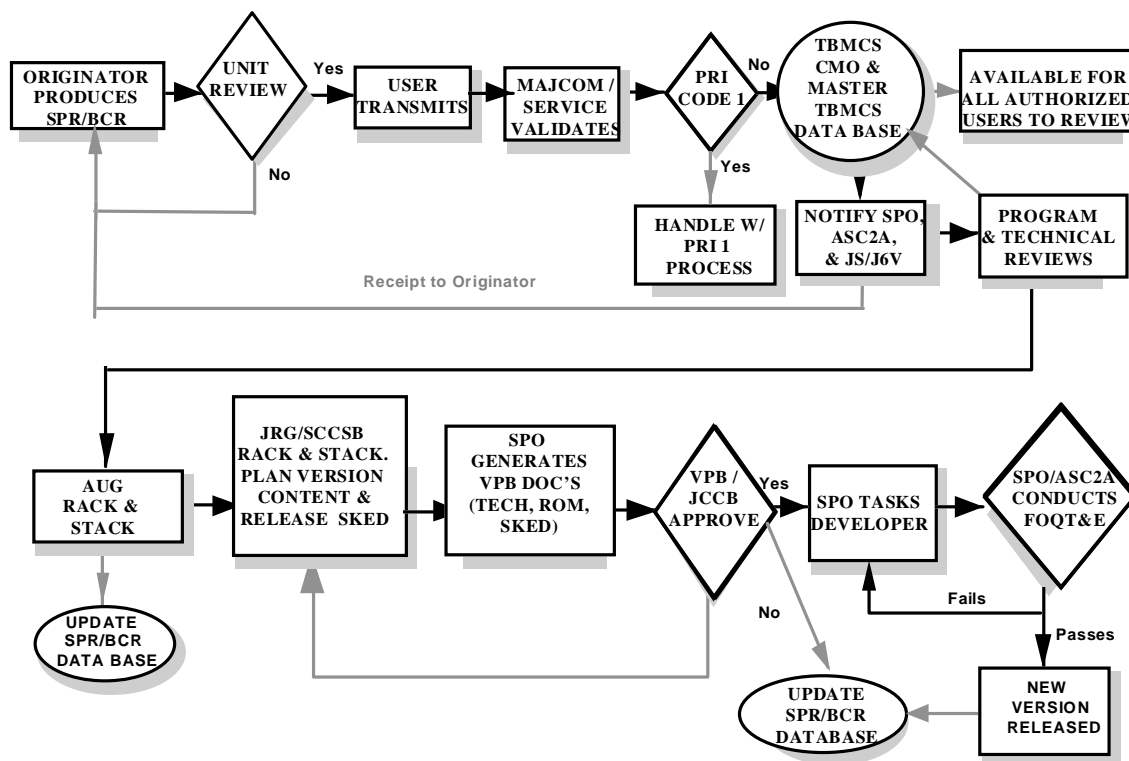

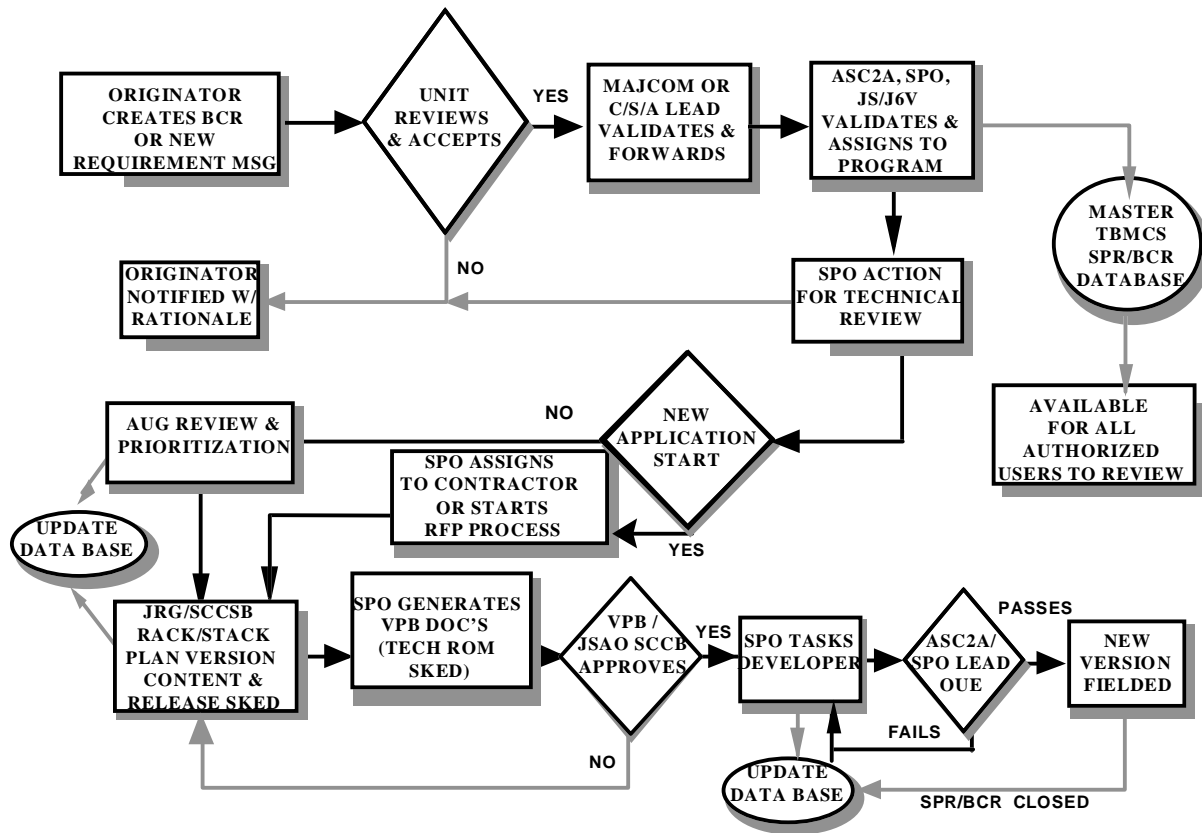Figure 3: Priority 2-5 SPR/BCR Process Flow

Figure 4: New Requirement Process Flow

d. Normal Processing of Priority 2-5 SPRs/BCRs by the CAF C2 SPO.
Upon receipt of a SPR/BCR, the CAF C2 SPO will administratively review,
process, and distribute the SPR/BCR (Figure 3). The TBMCS CMO will
enter the SPR/BCR into the SPR/BCR tracking system as either joint,
Service-unique, or unknown (the JSAO SCCB determines this status for
each SPR/BCR) so it can be queried with the entire database or independ-
ently via various sorting criteria by C/S/A or allied users. The CAF C2
SPO provides user procedures on how to query the SPR/BCR tracking
system in the TBMCS SPR/BCR Reporting and Processing Procedures

Instruction. SPRs/BCRs that generate new GCCS requirements will be handled according to the process steps outlined in CJCSI 6721.01, GCCS Functional Requirements Evaluation Procedures.

17. <u>C/S/A Configuration Management Processes</u>. C/S/As will make provision for participation by other C/S/As when their boards are responsible for control of any system that has the potential to impact, or is impacted by, the JSAOS. C/S/As may present their version release plans and other air operations/ATO-related plans to the JSAO SCCB in conjunction with the TBMCS VPB, or may request an additional JSAO SCCB, if needed. The JSAO SCCB Secretariat will coordinate scheduling of JRGs to review the C/S/A and allied plans or proposals as needed.

18. <u>Configuration Audits</u>. Configuration audit responsibilities (e.g., functional configuration audits (FCA)) remain with the developing C/S/A and/or ally. Audit results may be provided to the JSAO SCCB, when requested.

APPENDIX A

JOINT AIR OPERATIONS SOFTWARE COMPUTER SOFTWARE CONFIGURATION
ITEMS (CSCI)

This appendix lists the CSCIs used in the conduct of planning joint air operations that are the joint standard. Module names may change with the transition of CTAPS to TBMCS and then to GCCS. However, the functionality will remain the joint standard, and the new names will be reflected in updates to this CJCSI.

ABPT	Air Battle Plan Transfer
ADS	Airspace Deconfliction System
APS	Advanced Planning System
ARDP	ATO Review and Dissemination Package
CAFMS X	Computer Assisted Force Management System
FLEX	Force Level Execution System
JDP	Joint Defensive Planner
JPT	JFACC Planning Tool
JMAPS	Joint Message Analysis and Processing System
JMPP	Joint Interoperability of Tactical Command and Control (JINTACCS) Message Preparation and Parsing
JMEM	Joint Munitions Effectiveness Manual
RAAP	Rapid Application of Air Power
STOR	STACCS or AFATDS to RAAP Interface

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APPENDIX B

SEVEN QUESTIONS FOR AIR OPERATIONS SOFTWARE SYSTEMS
INTEOPERABILITY

Every JSAOS release (major releases, maintenance releases, and patches) will be reviewed by the JSAO SCCB prior to fielding. During this review, the answers to the following questions must be provided:

1. Will all hosts and remotes be compatible between the currently fielded and new versions?

2. If not, what will not be compatible?

3. Is new equipment required?

4. Will it have the same look and feel as the previous version?

5. Will this version be required to upgrade to the next version release?

6. Is any additional training required?

7. Are supporting documentation, spares, and licenses available?

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ENCLOSURE B

REFERENCES AND GUIDELINES

a. DJS message, DTG 301638Z Jul 93.

b. Air Force ATO Executive Agency Plan, 5 July 1995.

c. USMTF Configuration Control Board Charter and JIEO Circular 9153, Implementation Procedures for the USMTF Configuration Control Board, March 1995.

d. Navy Tactical Command System Afloat ORD, Ser 418-06-95, 10 Oct 1995.

e. Operations Support System (OSS) ORD, Ser 186-094-90, 21 December 1987.

f. Tactical Support Center (TSC) ORD, Ser 373-88/6-94, 21 September 1994.

g. Tactical Aircraft Mission Planning ORD, Ser 362-06-94, 20 January 1994.

h. Contingency Theater Automated Planning System Operational Requirements Document, CAF (TAF 305-88)-I/II/III, 8 February 1995.

i. Wing Command and Control System Multi-Command Operational Requirements Document, CAF-AFSOC TAF-340-88-I/II/III, 22 June 1995.

j. Operational Requirements Document (ORD) for the Advanced Field Artillery Tactical Data System (AFATDS), 30 August 1993.

k. AGCCS System/Segment Design Document, Volume 1 of 2, CM02.0011, 31 August 1995.

l. Operational Requirements Document (ORD) for the Tactical Air Command Center (TACC) (No. CCC 256.1), 24 March 1994.

m. Operational Requirements Document (ORD) for the High Mobility Downsized Direct Air Support Center (HMD DASC) (No. CCC 35.3.2), 18 April 1994.

n. Joint Mission Needs Statement (MNS) for the Global Command and Control System (GCCS), 8 June 1995.

o. GCCS Command, Control, Communications, Computers, and Intelligence (C4) System Integration Working Group (SIWG) Charter (Draft), 27 November 1996.

p. CJCSI 6721.01, Global Command and Control System Functional Requirements Evaluation Procedures, 15 March 1997.

q. CJCSI 6722.01, GCCS Configuration Management Policy (Draft), 7June 1997.

r. TBMCS Software Problem Report/Baseline Change Request Reporting and Processing Procedures, 26 November 1996.

GLOSSARY

ABPT	Air Battle Plan Transfer
ACC	Air Combat Command
ACO	airspace control order
ADS	Airspace Deconfliction System
AFATDS	Advanced Field Artillery Tactical Data System
AFPEO/BA	Air Force Program Executive Office for Battle Management
AIWG	Air Operations Interoperability Working Group
APS	Advanced Planning System
ARDP	ATO Review and Dissemination Package
ASC2A	Air and Space Command and Control Agency
ATACC	Advanced Tactical Air Command Center
ATO	air tasking order
AUG	application user group
BCR	Baseline Change Request
CAF	Combat Air Forces
CAFMS	Computer Assisted Force Management System
CECOM	Communications Electronics Command
CINC	commander of a combatant command
CM	configuration management
CMO	Configuration Management Office
COMSPARWARSYSCOM	Commander, Space and Warfare Systems Command
COTS	commercial off the shelf
CR	change request
C/S/A	CINC/Service/Defense Agency
CSCI	Computer Software Configuration Item
CSS	Computer Support Squadron
CTAPS	Contingency Theater Automated Planning System
C2	command and control

DII COE	Defense Information Infrastructure Common Operating Environment
DISA	Defense Information Systems Agency
DJS	Director, Joint Staff
ESC	Electronic Systems Center
FCA	functional configuration audit
FLEX	Force Level Execution System
GCC	Global Command and Control
GCCS	Global Command and Control System
IAW	in accordance with
ICP	interface change proposal
JDP	Joint Defensive Planner
JIEO	Joint Interoperability and Engineering Organization
JITC	Joint Interoperability Test Center
JMAPS	Joint Message Analysis and Processing System
JMCIS	Joint Maritime Command Information System
JMEM	Joint Munitions Effectiveness Manual
JMPP	Joint Interoperability of Tactical Command and Control (JINTACCS) Message Preparation and Parsing
JPT	JFACC Planning Tool
JRG	Joint Review Group
JSAOS	joint standard air operations software
JSAO SCCB	Joint Standard Air Operations Software Configuration Control Board
JTF	Joint Task Force
MAJCOM	Major Command

MARCORSYSCOM	Marine Corps Systems Command
MCEB	Military Communications-Electronics Board
OSF	Operations Support Facility
OSS	Operations Support System
OUE	Operational User Evaluation
RAAP	Rapid Application of Air Power
ROM	rough order of magnitude
S/A	Services and agencies
SCCSB	Software Configuration Control Sub-Board
SDR	System Design Review
SIWG	Systems Integration Working Group
SPR	Software Problem Report
SPO	System Program Office
SSF	Software Support Facility
STOR	STACCS or AFATDS to RAAP Interface
TACC	Tactical Air Command Center
TAG	Technical Assessment Group
TAD	Temporary Additional Duty
TBMCS	Theater Battle Management Core System
TDY	Temporary Duty
TOR	terms of reference
TSC	Tactical Support Center
TTD	technical task directive
USMTF	United States message text format
VPB	Version Planning Board
VPD	Version Planning Document
VTAG	Pre-Version Planning Board (VPB) Technical Assessment Group

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